

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/50/973	
Source:		
Date Processed by STIC:	5/10/5	

ENTERED



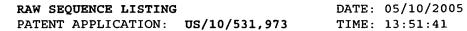
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RAW SEQUENCE LISTING DATE: 05/10/2005
PATENT APPLICATION: US/10/531,973 TIME: 13:51:41

Input Set : A:\14875-142US1.txt

3 <110> APPLICANT: Kitamura, Toshio

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Kumagai, Hidetoshi
      6 <120> TITLE OF INVENTION: MAST CELL-DERIVED MEMBRANE PROTEINS
      8 <130> FILE REFERENCE: 14875-142US1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/531,973
C--> 10 <141> CURRENT FILING DATE: 2005-04-28
     10 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/013921
     11 <151> PRIOR FILING DATE: 2003-10-30
     13 <150> PRIOR APPLICATION NUMBER: JP 2002-316680
     14 <151> PRIOR FILING DATE: 2002-10-30
     16 <150> PRIOR APPLICATION NUMBER: JP 2002-354165
     17 <151> PRIOR FILING DATE: 2002-12-05
     19 <160> NUMBER OF SEQ ID NOS: 6
     21 <170> SOFTWARE: PatentIn version 3.1
     23 <210> SEO ID NO: 1
     24 <211> LENGTH: 1752
     25 <212> TYPE: DNA
     26 <213> ORGANISM: Mus musculus
     28 <220> FEATURE:
     29 <221> NAME/KEY: CDS
     30 <222> LOCATION: (148)..(1104)
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     36 gtctcagaga ctggccgtcc cctagcggga ctgaaccgtg gagcgtccag ccgtggcctg
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     38 cctgccggtg acccgtgtgt gggagaa atg acc caa ctg gcc tca gct gtg tgg
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                                      Met Thr Gln Leu Ala Ser Ala Val Trp
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     40
                                                                              222
     42 ctg ccc acg ctg ttg ctg ctg ctg ctt ttt tgg ctt cca ggc tgt
     43 Leu Pro Thr Leu Leu Leu Leu Leu Leu Phe Trp Leu Pro Gly Cys
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     46 gtc cct ctg cat ggt ccc agc acc atg aca gga agt gtg ggt caa tcc
     47 Val Pro Leu His Gly Pro Ser Thr Met Thr Gly Ser Val Gly Gln Ser
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                                            35
     50 ctg agt gtg tcg tgt cag tat gag gag aaa ttt aag act aag gac aaa
                                                                              318
     51 Leu Ser Val Ser Cys Gln Tyr Glu Glu Lys Phe Lys Thr Lys Asp Lys
    52
                    45
     54 tac tgg tgc aga ggg tca ctt aag gta ctg tgc aaa gat att gtc aag
                                                                              366
     55 Tyr Trp Cys Arg Gly Ser Leu Lys Val Leu Cys Lys Asp Ile Val Lys
                                    65
     58 acc agc agc tca gaa gaa gct agg agt ggc aga gtg acc atc agg gac
                                                                              414
     59 Thr Ser Ser Ser Glu Glu Ala Arg Ser Gly Arg Val Thr Ile Arg Asp
     62 cat cca gac aac ctc acc ttc aca gtg acc tat gag agc ctc acc ctg
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Input Set : A:\14875-142US1.txt

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				gac													510
	Asp	Asp	Ala	Asp		туr	мет	Cys	АТА		Asp	шe	Pro	Pne		ASI	
68					110					115					120	~++	
	_		_	999		_				_		-					558
	Ата	Pro	ьeu	Gly	ьeu	Asp	гух	Tyr		гуѕ	iie	GIU	ьeu	135	vai	vai	
72		2 art	~~~	125	999	~++	tas	t at	130	~~~	999	202	at a		202	aat	606
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76	PIO	ser	140	Asp	PIO	vai	261	145	FIO	Gry	FIO	1111	150	Gru	1111	FIO	
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				Thr													054
80	vai	155	JCI	1111	UCI	шец	160	1111	Lys	O ₂ y	110	165	ДСИ	OI,	502	11011	
	aca		gac	cgc	cat	gag		gac	tat	tcc	caq		tta	agg	ctc	cca	702
				Arg													
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				Ser													
88					190					195					200		
	tct	cta	cta	gcc		aqq	atq	ttc	caq	aaq	caa	ctq	qtc	aaa	qct	qat	798
				Āla													
92				205	•	J			210	-	_			215		-	
94	aqq	cat	cca	gag	ctq	tcc	caq	aac	ctc	aga	cag	gct	tct	gag	cag	aat	846
				Glu	_												
96	-		220					225		_			230				
98	gag	tgc	cag	tat	gtg	aat	ttg	cag	ctg	cac	acg	tgg	tct	ctg	agg	gaa	894
99	Glu	Cys	Gln	Tyr	Val	Asn	Leu	Gln	Leu	His	Thr	Trp	Ser	Leu	Arg	Glu	
100		23	5				240)				24!	5				
102	gag	g cc	gigt	g cta	cca	a agt	cag	g gta	a gaa	a gtg	g gto	g gaa	a tai	age	c aca	a ttg	942
103	Glu	ı Pro	o Val	l Leu	Pro	Sei	c Glr	ı Val	l Glı	ı Val	l Val	l Glı	л Туг	r Se:	r Th	r Leu	
104	250)				255	5				260)				265	
																c tcc	990
107	Ala	a Let	ı Pro	o Glr	Glı	ı Glı	ı Leı	ı His	туз			r Vai	l Ala	a Phe	Ası	n Ser	
108					270					275					286		
																t cag	1038
111	Glr	n Arg	g Glr	n Asp	Sei	His	s Ala	a Asr	_		Sei	r Lei	ı His			o Gln	
112				285					290					29!		•	
	_		_	_			_	-		_		_	_			a ctc	1086
	_	Gli	_		Gli	і Туі	: Sei			e Glr	ı Lys	s Pro	-	_	s Gly	y Leu	
116			300					305					310				
		-		tac	_	_	a cto	cctto	gtca	ccto	gatco	ctc t	cagt	ggt	ga		1134
				ע Tyr	. Let	1											
120		319															1104
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						-										gctctct	1254
																tcttttg	1314
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T30	gto	agto	cag	gaag	aaca	ICC T	-gcgg	jccac	r gg	ygaaa	19199	9 999	yaccc	aig	aga	ctacaaa	1434

RAW SEQUENCE LISTING DATE: 05/10/2005 PATENT APPLICATION: US/10/531,973 TIME: 13:51:41

Input Set : A:\14875-142US1.txt

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		3 > OI				mus	culus	3									
		0 > SI															
	•	Thr	Gln	Leu	Ala	Ser	Ala	Val	Trp		Pro	Thr	Leu	Leu		Leu	
152					5					10					15		
	Leu	Leu	Leu		Trp	Leu	Pro	Gly	_	Val	Pro	Leu	His		Pro	Ser	
155				20					25	_	_		_	30		_	
	Thr	Met		Gly	Ser	Val	Gly		Ser	Leu	Ser	Val		Cys	GIn	Tyr	
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		Glu	Lys	Phe	Lys	Thr		Asp	Lys	Tyr	Trp		Arg	GIY	Ser	Leu	
161		50	_	~	_	•	55	** . 3		ml		60	6	~1	a 1		
	_	Val	Leu	Cys	ьуs	_	шe	vai	ьys	Thr		ser	ser	Glu	GIU		
164		0	a 1	7	17-1	70	T1.	7	7	TT	75	7 ~~	7 ~~	τ	mb so	80 Dho	
	Arg	Ser	GIY	Arg		THE	ire	Arg	Asp		PIO	Asp	ASII	ьeu		Pne	
167	mb se	77.7	mb se	П	85 C3	Cox	T 011	The	T ou	90	7 ~~	ח ד ת	7 ~~	The	95	Mot	
	1111	Val	1111	100	GIU	ser	ьeu	TIIL		ASD	Asp	Ala	Asp	1110	ıyı	Mec	
170	Crra	Ala	17-1		т1 о	Dro	Dho	Dho	105	הות	Dro	T 011	C1		7 cn	Tarc	
173	Cys	Ата	115	ASP	116	PLO	FIIE	120	ASII	AIa	PIO	пеп	125	пец	Asp	пÅр	
	Tur	Phe		מוז	Glu	T.Au	Sar		17 = 7	Dro	Car	Glu		Dro	17=1	Ser	
176	TYL	130	Буз	110	Gru	nca	135	vai	Vai	110	JCI	140	лор	110	var	DCL	
	Ser	Pro	Glv	Pro	Thr	Len		Thr	Pro	Val	Val		Thr	Ser	Len	Pro	
	145		O. J			150	014			vul	155	001		001		160	
		Lys	Glv	Pro	Ala		Glv	Ser	Asn	Thr		Asp	Ara	Ara	Glu		
182			1		165		2			170			5	5	175	_	
	Asp	Tyr	Ser	Gln		Leu	Arq	Leu	Pro	Ala	Leu	Leu	Ser	Val		Ala	
185	-	•		180	•				185					190			
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190	Phe	Gln	Lys	Arg	Leu	Val	Lys	Ala	Asp	Arg	His	Pro	Glu	Leu	Ser	Gln	
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193	Asn	Leu	Arg	Gln	Ala	Ser	Glu	${\tt Gln}$	Asn	Glu	Cys	Gln	Tyr	Val	Asn	Leu	
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196	Gln	Leu	His	Thr	\mathtt{Trp}	Ser	Leu	Arg	Glu	Glu	Pro	Val	Leu	${\tt Pro}$	Ser	Gln	
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Input Set : A:\14875-142US1.txt

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224	Met	Ile	Pro	Arg	Val	Ile	Arg	Leu	Trp	Leu	Pro	Ser	Ala	Leu	Phe	Leu	
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228	Ser	Gln	Val	Pro	Gly	Cys	Val	Pro	Leu	His	Gly	Pro	Ser	Thr	Ile	Thr	
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	ggc	_	_		_	_					_						144
232	Gly	Ala	Val	Gly	Glu	Ser	Leu	Ser	Val	Ser	Cys	Gln	Tyr	Glu	Glu	Lys	
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236	Phe	Lys	Thr	Lys	Asp	Lys	Phe	Trp	Cys	Arg	Gly		Leu	Lys	Val	Leu	
237		50					55					60					
	tgt																240
	Cys	Lys	Asp	Ile	Val	_	Thr	Ser	Ser	Ser		Glu	Val	Arg	Asn	-	
241						70					75					80	
	cga																288
	Arg	vaı	Thr	шe	_	Asp	ніѕ	Pro	Asp		ьeu	Thr	Pne	Thr		Thr	
245					85	~+~	~~~	~~+	~~~	90		+	a + ~	+~+	95	~+~	336
	tat Tyr		-			_		_	_	_							336
249	ıyı	GIU	Ser	100	1111	neu	GIU	Ash	105	App	1111	ı yı	Mec	110	лια	Vai	
_	gat	ata	tca		+++	gat	aac	tcc		aaa	ttc	gat	ааσ		ttc	aag	384
	Asp																301
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	Leu																
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263	cac	act	cat	ccc	aqt	qtq	acc	aca	qat	gac	aca	att	cct	qct	ccc	tgc	528
	His				_				_	_				-			
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272	Ser	Leu	Lys	Leu	Phe	Leu	Phe	Leu	Ser	Met	Leu	Gly	Ala	Val	Leu	Trp	
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RAW SEQUENCE LISTING DATE: 05/10/2005
PATENT APPLICATION: US/10/531,973 TIME: 13:51:41

Input Set : A:\14875-142US1.txt

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279 tat gag aac cag tga	807
280 Tyr Glu Asn Gln	
281 225 284 <210> SEQ ID NO: 4	
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286 <212> TYPE: PRT	
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294 20 25 30	
296 Gly Ala Val Gly Glu Ser Leu Ser Val Ser Cys Gln Tyr Glu Glu Lys	3
297 35 40 45	
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300 50 55 60	
302 Cys Lys Asp Ile Val Lys Thr Ser Ser Ser Glu Glu Val Arg Asn Gly	7
303 65 70 75 80	
305 Arg Val Thr Ile Arg Asp His Pro Asp Asn Leu Thr Phe Thr Val Th	£
306 85 90 95	
308 Tyr Glu Ser Leu Thr Leu Glu Asp Ala Asp Thr Tyr Met Cys Ala Val	L
309 100 105 110	
311 Asp Ile Ser Leu Phe Asp Gly Ser Leu Gly Phe Asp Lys Tyr Phe Lys	3
312 115 120 125	
314 Ile Glu Leu Ser Val Val Pro Ser Glu Asp Pro Val Thr Gly Ser Ser	: .
315 130 135 140	
317 Leu Glu Ser Gly Arg Asp Ile Leu Glu Ser Pro Thr Ser Ser Val Gly	
318 145 150 155 160	
320 His Thr His Pro Ser Val Thr Thr Asp Asp Thr Ile Pro Ala Pro Cys	}
321 165 170 · 175	1
323 Pro Gln Pro Arg Ser Leu Arg Ser Ser Leu Tyr Phe Trp Val Leu Val	-
324 180 185 190	•
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/531,973

DATE: 05/10/2005 TIME: 13:51:42

Input Set : A:\14875-142US1.txt

Output Set: N:\CRF4\05102005\J531973.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/531,973

DATE: 05/10/2005 TIME: 13:51:42

Input Set : A:\14875-142US1.txt

Output Set: N:\CRF4\05102005\J531973.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date